Combining propofol with morphine in patient-controlled analgesia to prevent post-operative nausea and vomiting. 152
S. E. Bree, M. J. West, P. A. Taylor and I. G. Kestin

Prophylaxis for vomiting by children after tonsillectomy: ondansetron compared with perphenazine 155
W. M. Splinter and E. J. Rhine

Effects of preinduction and intraoperative warming during major laparotomy 159
M. Bock, J. Müller, A. Bach, H. Böhrer, E. Martin and J. Motsch

Relationship between cardioventilatory coupling and respiratory sinus arrhythmia 164
D. C. Galletly and P. D. Larsen

Cardiovascular effects of 50% nitrous oxide in older adult patients anaesthetized with isoflurane or halothane 169
M. S. McKinney and J. P. H. Fee

Influence of 0.1 minimum alveolar concentration of sevoflurane, desflurane and isoflurane on dynamic ventilatory response to hypercapnia in humans 174
M. van den Elsen, E. Sarton, L. Teppema, A. Berkenbosch and A. Dahan

Urinary excretion as an input variable in volume kinetic analysis of Ringer's solution 183
R. G. Hahn and D. Drobin

Bovine haemoglobin-based oxygen carrier for patients undergoing haemodilution before liver resection 189
T. Standl, M.-A. Burmeister, E.-F. Horn, S. Wilhelm, W. T. Knoefel and J. Schulte am Esch

Blood salvage during Caesarean section 195
M. P. Rainaldi, P. L. Tazzari, G. Scagliarini, B. Borghi and R. Conte

Prevention of spinal anaesthesia-induced hypotension in the elderly: i.m. methoxamine or combined hetastarch and crystalloid 199
D. J. Buggy, C. K. Power, R. Meeke, S. O'Callaghan, C. Moran and G. T. O'Brien

LABORATORY INVESTIGATIONS

Reduced quality of clot formation with gelatin-based plasma substitutes 204
S. N. Mardel, F. M. Saunders, H. Allen, G. Menezes, C. M. Edwards, L. Ollerenshaw, D. Baddeley, A. Kennedy and R. M. Ibbotson

Endocrine and metabolic effects of hypotension or halothane inhalation in sheep anaesthetized with pentobarbital 208
P. M. Taylor

Production of nitrogen dioxide in a delivery system for inhalation of nitric oxide: a new equation for calculation. 213
L. Lindberg and G. Rydgren

Lidocaine increases the ventricular fibrillation threshold during bupivacaine-induced cardiotoxicity in pigs 218
Y. Fujita, S. Endoh, T. Yasukawa and A. Sari

REVIEW ARTICLE

Anaesthesia for telescopic procedures in the thorax 223
S. Plummer, M. Hartley and R. S. Vaughan

SHORT COMMUNICATIONS

Comparison of intubating conditions after rocuronium or vecuronium when the timing of intubation is judged by clinical criteria 235
I. Smith and R. S. G. Saad

Vecuronium-induced neuromuscular block during xenon or sevoflurane anaesthesia in humans 238
Y. Nakata, T. Goto and S. Morita

Current practice of local anaesthesia for routine ocular surgery 241
R. J. Mawer and A. G. A. Coombes

Desflurane maintains intraocular pressure at an equivalent level to isoflurane and propofol during unstressed non-ophthalmic surgery 243
S. Sator, E. Wildling, C. Schabernig, J. Akramian, E. Zulus and M. Winkler

Intraperitoneal bupivacaine or lidocaine does not provide analgesia after total abdominal hysterectomy 245
P. B. Ali, B. R. Cotton, K. M. Williamson and G. Smith

Prevention of postoperative nausea and vomiting in female patients during menstruation: comparison of droperidol, metoclopramide and granisetron 248
Y. Fujii, H. Toyooka and H. Tanaka

Effects of isoflurane–nitrous oxide anaesthesia on insulin secretion in female patients 250
J. P. Desborough, M. G. Knowles and G. M. Hall

Relationship between end-tidal and arterial carbon dioxide partial pressure using a cuffed oropharyngeal airway and a tracheal tube 253
Y. Nakata, T. Goto, S. Uezono, F. Sasaki and S. Morita

The blood–gas partition coefficient of xenon may be lower than generally accepted 255
T. Goto, K. Suwa, S. Uezono, F. Ichinose, M. Uchiyama and S. Morita

Sevoflurane has less effect than halothane on pulmonary afferent activity in the rabbit 257
C. Moores, A. S. Davies and M. Dallak

CASE REPORT

Propofol and electroconvulsive therapy in a patient at risk from acute intermittent porphyria 260
I. H. Shaw and I. G. McKeith

CITATION CLASSIC

Commentary 263
K. Sykes

The elimination of rebreathing in various semi-closed anaesthetic systems 265
W. W. Mapleson

CORRESPONDENCE

Tracheal intubation in trauma 270

Calculating catecholamine extraction from plasma 270

Extradural buprenorphine and breast feeding after Caesarean section 271

Why the Y? 271

Propofol in paediatric intensive care: further evaluation is justified 272

Sevoflurane in acute airway obstruction 272

Anaesthesia for surgery of emphysema 273

Suboptimal use of inhaled aerosol therapy during mechanical ventilation in intensive therapy units in the UK and Ireland 274

BOOK REVIEWS

Critical Care Management 275

Anaethesia Review 275

MARCH

EDITORIALS: I Diaphragmatic dysfunction: an out-moded concept 277
G. B. Drummond

II Animal tissues into humans 281
N. R. Webster

CLINICAL INVESTIGATIONS

Pulmonary function and pain after gastroplasty performed via laparotomy or laparoscopy in morbidly obese patients 283
J. L. Joris, V. L. Hinque, P. E. Laurent, C. J. Desaive and M. L. Lamy

Extradural S(–)-bupivacaine: comparison with racemic RS-bupivacaine 289
C. R. Cox, K. A. Faccenda, C. Gilhooly, J. Bannister, N. B. Scott and L. M. M. Morrison

Addition of clonidine or fentanyl to local anaesthetics prolongs the duration of surgical analgesia after single shot caudal block in children 294
I. Constant, O. Gall, L. Gouyet, M. Chauvin and I. Murat

Double-blind comparison of extradural block with three bupivacaine–ketamine mixtures in knee arthroplasty 299
P. S. Weir and J. P. H. Fee

Glycogen depletion and lactate accumulation in human intercostal muscles after administration of succinylcholine 302
M. Mizuno and N. H. Secher

Augmentation of the neuromuscular blocking effects of cisatracurium during desflurane, sevoflurane, isoflurane or total i.v. anaesthesia 308
H. Wulf, M. Kahl and T. Ledowski

Effects of hypothermia on thrombelastography in patients undergoing cardiopulmonary bypass 313
S. C. Kettner, S. A. Kozek, J. P. Groetzner, C. Gonano, A. Schellongowski, M. Kucera and M. Zimpfer

Benefits of intraoperative skin surface warming in cardiac surgical patients 318
L. Hohn, A. Schweizer, A. Kalangos, D. R. Morel, M. Bednarkiewicz and M. Licker

Pharmacokinetics of propofol during conscious sedation using target-controlled infusion in anxious patients undergoing dental treatment 324
V. L. B. Oei-Lim, M. White, C. J. Kalkman, F. H. M. Engbers, P. C. Makkes and W. G. Ooms

Positive pressure ventilation with the laryngeal mask airway in non-paralysed patients: comparison of sevoflurane and propofol maintenance techniques 332
C. Keller, H. J. Sparr and J. R. Brimacombe

Catheter deadspace: a source of error during tonometry ... 337
P. J. G. M. Steverink, J. J. Kolkman, A. B. J. Groeneveld and J. W de Vries

Bispectral index: comparison of two montages 342
J. D. Hall and G. G. Lockwood

Laryngoscopy and fibreoptic intubation in acromegalic patients 345
P. Hakala, T. Randell and H. Valli

LABORATORY INVESTIGATIONS

Effect of continuous spinal remifentanil infusion on behaviour and spinal glutamate release evoked by subcutaneous formalin in the rat 348
H. Buerkle, M. Marsala and T. L. Yaksh

Changes in right atrial catecholamine content in naïve rats and after naloxone-induced withdrawal 354
J. V. Rabadán, M. V. Milanés and M. L. Laorden

Surfactant impairment after mechanical ventilation with large alveolar surface area changes and effects of positive end-expiratory pressure 360
S. J. C. Verbrugge, S. H. Böhm, D. Gommers, L. J. I. Zimmerman and B. Lachmann

Effects of inhalation anaesthetics on the release of acetylcholine in the rat cerebral cortex *in vivo* 365
T. Shichino, M. Murakawa, T. Adachi, T. Arai, Y. Miyazaki and K. Mori

REVIEW ARTICLE

Myocardial stunning in the neonate 371
P. D. Booker

SHORT COMMUNICATION

Neuromuscular monitoring by intensive care nurses: comparison of acceleromyography and tactile assessment 384
R. Greer, N. J. N. Harper and A. J. Pearson

CASE REPORT

Accelerated recovery and disposition from rocuronium in an end-stage renal failure patient on chronic anticonvulsant therapy with sodium valproate and primidone 386
J. J. Driessen, E. N. Robertson, L. H. D. J. Booij and T. B. Vree

COMMENTARY

Multicentre evaluation of ryanodine contracture testing in malignant hyperthermia 389
P. M. Hopkins, E. Hartung, F. Wappler and the European Malignant Hyperthermia Group

CITATION CLASSIC

Commentary 395
G. Smith

The human cardiovascular response to Fluothane anaesthesia 396
M. Johnstone

CORRESPONDENCE

Anaesthesia after exhaustive exercise 406

Pain after laparoscopic cholecystectomy 406

Ondansetron compared with metoclopramide in the treatment of PONV 407

Sevoflurane for difficult intubation in children 408

Caudal tramadol for postoperative analgesia in hypospadias surgery 408

Bair Hugger active patient warming system 409

Inappropriate use of placebo 409

Bradycardia during rapid inhalation induction with sevoflurane in children 410

Effect of temperature on diaphragmatic function 410

BOOK REVIEWS

Review for Intensive Care Medicine 411

Essential Anatomy for Anaesthetists 411

APRIL

EDITORIALS: I Graham Smith, Editor 1987–1997 413
G. M. Hall

II Pain after amputation: is prevention better than cure? 415
H. M. Thompson

III Onset times and intubating conditions .. 417
R. P. F. Scott

IV Does ketorolac cause postoperative renal failure: how do we assess the evidence? .. 420
P. S. Myles and I. Power

CLINICAL INVESTIGATIONS

Ventilatory assistance and respiratory muscle activity. 1: Interaction in healthy volunteers 422
J. S. Mecklenburgh and W. W. Mapleson

Ventilatory assistance and respiratory muscle activity. 2: Simulation with an adaptive active ("aa" or "a-squared") model lung 434
J. S. Mecklenburgh and W. W. Mapleson

Effect of different doses of inhaled nitric oxide on pulmonary capillary pressure and on longitudinal distribution of pulmonary vascular resistance in ARDS .. 440
A. Benzing, G. Mols, J. Guttmann, H. Kaltofen and K. Geiger

Influence of surgical technique on early postoperative hypoxaemia in children undergoing elective palatoplasty. 447
F. S. Xue, G. An, S. Y. Tong, X. Liao, J. H. Liu and L. K. Luo

Sevoflurane compared with halothane for tracheal intubation in children 452
K. O'Brien, R. Kumar and N. S. Morton

Induction and emergence in infants less than 60 weeks post-conceptual age: comparison of thiopental, halothane, sevoflurane and desflurane 456
K. O'Brien, D. N. Robinson and N. S. Morton

Surgical/tourniquet pain accelerates blood coagulability but not fibrinolysis 460
S. Kohro, M. Yamakage, J. Arakawa, M. Kotaki, T. Omote and A. Namiki

Changes in specific markers of haemostasis during reduction mammoplasty 464
J.-F. Payen, M. Baruch, E. Horvilleur, M. Richard, T. Gariod and B. Polack

Effect of remifentanil on the haemodynamic response to orotracheal intubation 467
J. P. Thompson, A. P. Hall, J. Russell, B. Cagney and D. J. Rowbotham

Appropriate size and inflation of the laryngeal mask airway. 470
T. Asai, T. K. Howell, K. Koga and S. Morris

LABORATORY INVESTIGATIONS

Changes in mucociliary activity may be used to investigate the airway-irritating potency of volatile anaesthetics 475
A. Cervin and S. Lindberg

Cardiovascular effects of concomitant administration of isoflurane and nicorandil in dogs 481
V. Piriou, S. Ross, O. Bastien, D. Pigott, F. Trivin and P. Foëx

REVIEW ARTICLE

Population based pharmacokinetic analysis: why do we need it; what is it; and what has it told us about anaesthetics? 488
P. M. C. Wright

SHORT COMMUNICATIONS

Leucocyte distribution during sevoflurane anaesthesia 502
H. Morisaki, Y. Aoyama, M. Shimada, R. Ochiai and J. Takeda

Thiopental or etomidate for rapid sequence induction with rocuronium? 504
T. Fuchs-Buder, H. J. Sparr and T. Ziegenfuß

Caudal anaesthesia with 0.375% ropivacaine or 0.375% bupivacaine in paediatric patients 507
M. J. Da Conceicao and L. Coelho

Remifentanil in combination with propofol for spontaneous ventilation anaesthesia 509
J. E. Peacock, J. B. Luntley, B. O'Connor, C. S. Reilly, T. W. Ogg, B. J. Watson and S. Shaikh

CASE REPORTS

Extradural anaesthesia for Caesarean section in a patient with syringomyelia and Chiari type I anomaly 512
M. R. Nel, V. Robson and P. N. Robinson

Anaesthetic management in patients suspected of, or at risk of, having Creutzfeldt–Jakob disease 516
J. Hernàndez-Palazón, J. F. Martínez-Lage, J. A. Tortosa and J. M. García-Cayuela

Minimally invasive coronary bypass surgery: postoperative pain management using intermittent bupivacaine infiltration 519
M. F. Borges and A. S. Coulson

EQUIPMENT

Error in measurement of oxygen and carbon dioxide concentrations by the DeltatracII metabolic monitor in the presence of desflurane 521
T. W. L. Scheeren, M. Krossa, P. Meriläinen and J. O. Arndt

Video-intuboscopy: a new aid to routine and difficult tracheal intubation 525
M. Weiss

CITATION CLASSIC

Commentary 528
J. Norman

Stimulus frequency in the detection of neuromuscular block in humans 530
H. H. Ali, J. E. Utting and C. Gray

ABSTRACTS

Proceedings of the Anaesthetic Research Society, London Meeting, November 20–22, 1997 ..... 542P

CORRESPONDENCE

Anaesthesia and the competence revolution 562
Autologous blood transfusion 563
Propofol and electrophysiological variables during emergence from anaesthesia 563
Bronchospasm during inhalation of nebulized midazolam ... 564
Low-dose naloxone in the treatment of urinary retention during extradural fentanyl causes excessive reversal of analgesia 565
Extradural catheter-related infections in patients with infected cutaneous wounds 566

BOOK REVIEWS

Clinical Problems in Obstetric Anaesthesia 568
International Anesthesiology Clinics (Mechanical Ventilation), vol. 33. 568
Clinical Neuroanaesthesia. 569
Pain in the Elderly. 569
PK-SIM: The Pharmacokinetic Simulator, v. 3.11. 569
Acute and Chronic Pain. International Anesthesiology Clinics, vol. 35, No. 2. 570
Problems in Anaesthesia—Controversies in Neuroanaesthesia, vol. 9, No. 1. 570
International Anesthesiology Clinics. Airway Management in Pediatric Anesthesia, vol. 35, No. 3. 570
Self Assessment Colour Review of Cardiothoracic Critical Care. 571
ERRATA 573

MAY

EDITORIALS: I Is amnesia for intraoperative events good enough? 575
J. Andrade and J. G. Jones

II Orphanin FQ/nociceptin: an endogenous peptide agonist for the orphan opioid receptor 577
D. G. Lambert and D. K. Grandy

III Stature of anaesthetic personnel and positioning of patients 579
M. L. Heath

CLINICAL INVESTIGATIONS

Interaction of a subanaesthetic concentration of isoflurane with midazolam: effects on responsiveness, learning and memory 581
M. M. Ghoneim, R. I. Block and V. J. Dhanaraj

Category generation testing in the search for implicit memory during general anaesthesia 588
W. J. MacRae, J. M. Thorp and K. Millar

Comparison of S(−)-bupivacaine with racemic (RS)-bupivacaine in supraclavicular brachial plexus block 594
C. R. Cox, M. R. Checketts, N. Mackenzie, N. B. Scott and J. Bannister

Cardiovascular disturbances caused by extradural negative pressure drainage systems after intracranial surgery 599
J. Hernández-Palazón, J. A. Tortosa, S. Sánchez-Bautista, J. F. Martínez-Lage and D. Pérez-Flores

Preoperative nocturnal desaturations as a risk factor for late postoperative nocturnal desaturations 602
S. Isono, M. Sha, M. Suzukawa, Y. Sho, A. Ohmura, Y. Kudo, K. Misawa, S. Inaba and T. Nishino

Relationship between difficult tracheal intubation and obstructive sleep apnoea 606
A. S. Hiremath, D. R. Hillman, A. L. James, W. J. Noffsinger, P. R. Platt and S. L. Singer

In vivo investigation into the effects of haemodilution with hydroxyethyl starch (200/0.5) and normal saline on coagulation 612
T. G. Ruttmann, M. F. M. James and I. Aronson

Ease of placement of the laryngeal mask during manual in-line neck stabilization 617
T. Asai, J. Neil and M. Stacey

LABORATORY INVESTIGATIONS

Comparison of the effects of sevoflurane, isoflurane and halothane on rat myocardium 621
J.-L. Hanouz, B. Vivien, P.-Y. Gueugniaud, Y. Lecarpentier, P. Coriat and B. Riou

Effect of xenon on central nervous system electrical activity during sevoflurane anaesthesia in cats: comparison with nitrous oxide 628
J. Utsumi, T. Adachi, J. Kurata, Y. Miyazaki, M. Shibata, M. Murakawa, T. Arai and K. Mori

Effect of isoflurane on release and uptake of γ-aminobutyric acid from rat cortical synaptosomes 634
M. Larsen, T. S. Haugstad, J. Berg-Johnsen and I. A. Langmoen

Effects of diaspirin cross-linked haemoglobin on post-traumatic cerebral perfusion pressure and blood flow in a rodent model of diffuse brain injury 639
I. R. Piper, M. A. Garrioch, M. J. Souter, P. J. D. Andrews and D. Thomson

In vivo effects of propofol on acetylcholine release from the frontal cortex, hippocampus and striatum studied by intracerebral microdialysis in freely moving rats 644
T. Kikuchi, Y. Wang, K. Sato and F. Okumura

Propofol and Intralipid interact with reactive oxygen species: a chemiluminescence study 649
A. T. Demiryürek, İ. Cinel, S. Kahraman, M. Tecder-Ünal, N. Göğüş, Ü. Aypar and İ. Kanzik

Relaxant effects of propofol on human omental arteries and veins 655
S. M. Wallerstedt, K. Törnebrandt and M. Bodelsson

Effects of normobaric oxygen on ciliary beat frequency of human respiratory epithelium 660
A. Stanek, A. M. Brambrink, F. Latorre, B. Bender and P. P. Kleemann

REVIEW ARTICLE

Computed tomography and pulmonary measurements 665
G. B. Drummond

SHORT COMMUNICATIONS

Cricoid pressure: can protective force be sustained? 672
T. Meek, A. Vincent and J. E. Duggan

Gastro-oesophageal reflux with the laryngeal mask during day-case gynaecological laparoscopy 675
H. J. Skinner, B. Y. M. Ho and R. P. Mahajan

Clinical assessment of the single use laryngeal mask airway—the LMA-Unique 677
C. Verghese, J. Berlet, A. Kapila and R. Pollard

Comparison between extradural infusion of ropivacaine or bupivacaine for the prevention of postoperative pain after total knee arthroplasty 680
T. Muldoon, K. Milligan, P. Quinn, D. C. Connolly and K. Nilsson

Repeated vital capacity manoeuvres after cardiopulmonary bypass: effects on lung function in a pig model 682
L. Magnusson, S. Wicky, H. Tydén and G. Hedenstierna

CASE REPORT

Survival from massive intraoperative pulmonary thromboembolism during orthotopic liver transplantation 685
M. Manji, J. L. Isaac and J. Bion

CITATION CLASSIC

Commentary 688
F. Reynolds

Anaesthesia for Caesarean section 690
D. D. Moir

CORRESPONDENCE

Nitric oxide (NO)/nitrogen dioxide (NO_2) scavengers 697
Transposition of rotameter tubes 698
Remifentanil 699
Sevoflurane for intubation of an infant with croup 699
Risk factors for cardiovascular death 700
Walking extradurals 700

BOOK REVIEWS

Handbook of Cardiac Anaesthesia and Perioperative Care 703
Pain Relief in Labour 703
Anaesthesia and Intensive Care in Hong Kong, Evolution and Present Position 703
Peri-Operative Transfusion Medicine 703
The Clinical Practice of Clinical Care Neurology 704
ERRATA 706

JUNE

EDITORIALS: I New considerations in pharmacokinetic variability: within-patient variability over time 707
C. J. R. Parker

II Accidental i.v. injection of local anaesthetics: an avoidable event? 710
M. R. Checketts and J. A. W. Wildsmith

III Could do better: statistics in anaesthesia research 712
N. W. Goodman and C. G. Powell

CLINICAL INVESTIGATIONS

Do the pharmacokinetics of vecuronium change during prolonged administration in critically ill patients? 715
V. Segredo, J. E. Caldwell, P. M. C. Wright, M. L. Sharma, L. D. Gruenke and R. D. Miller

Dose-response curve and time-course of effect of vecuronium in male and female patients 720
F. S. Xue, X. Liao, J. H. Liu, S. Y. Tong, Y. M. Zhang, R. J. Zhang, G. An and L. K. Luo

Quantitative electroencephalographic analysis of the biphasic concentration–effect relationship of propofol in surgical patients during extradural analgesia 725
K. Kuizenga, C. J. Kalkman and P. J. Hennis

Effects of premedication on dose requirements for propofol: comparison of clonidine and hydroxyzine 733
J. Guglielminotti, C. Descraques, S. Petitmaire, L. Almenza, O. Grenapin and J. Mantz

Administration of a crystalloid fluid preload does not prevent the decrease in arterial blood pressure after induction of anaesthesia with propofol and fentanyl 737
R. J. Turner, S. P. Gatt, P. C. A. Kam, I. Ramzan and M. Daley

Postoperative hypoxaemia: continuous extradural infusion of bupivacaine and morphine *vs* patient-controlled analgesia with intravenous morphine 742
C. Motamed, A. Spencer, F. Farhat, J. L. Bourgain, P. Lasser and C. Jayr

Patient-maintained analgesia with target-controlled alfentanil infusion after cardiac surgery: a comparison with morphine PCA 748
M. R. Checketts, C. J. Gilhooly and G. N. C. Kenny

Comparison of remifentanil in combination with isoflurane or propofol for short-stay surgical procedures 752
D. J. Rowbotham, J. E. Peacock, R. M. Jones, H. M. Speedy, J. R. Sneyd, R. W. Morris, J. P. Nolan, D. Jolliffe and G. Lang

Effect of pre-treatment with intravenous atropine or glycopyrrolate on cardiac arrhythmias during halothane anaesthesia for adenoidectomy in children 756
P. Annila, M. Rorarius, P. Reinikainen, M. Oikkonen and G. Baer

Tropisetron reduces vomiting after tonsillectomy in children 761
C. Ang, W. Habre and C. Sims

Granisetron in the prevention of nausea and vomiting after middle-ear surgery: a dose-ranging study 764
Y. Fujii, H. Toyooka and H. Tanaka

Respiratory complications associated with tracheal intubation and extubation 767
T. Asai, K. Koga and R. S. Vaughan

Hospital mortality after urgent and emergency laparotomy in patients aged 65 yr and over. Risk and prediction of risk using multiple logistic regression analysis 776
T. M. Cook and C. J. E. Day

LABORATORY INVESTIGATIONS

Hepatic energy metabolism during ketamine and isoflurane anaesthesia in haemorrhagic shock 782
K. Takahashi, S. Nosaka, S. Morikawa and T. Inubushi

Possible involvement of multiple human cytochrome P450 isoforms in the liver metabolism of propofol 788
J. Guitton, T. Buronfosse, M. Desage, J.-P. Flinois, J.-P. Perdrix, J.-L. Brazier and P. Beaune

Evaluation of a new design of tracheal tube cuff to prevent leakage of fluid to the lungs 796
P. J. Young, S. A. Ridley and G. Downward

Synergistic antinociceptive interaction between sevoflurane and intrathecal fentanyl in dogs 800
D. Ma, S. M. Sapsed-Byrne, M. K. Chakrabarti and J. G. Whitwam

Inhalation anaesthetics produce asynchronous reversal of ventilation inhomogeneity and increased lung resistance in a canine model of bronchial asthma 807
T. Ishikawa, N. Shinozuka, J. Sato and T. Nishino

Effects of nalbuphine, pentazocine and U50488H on gastric emptying and gastrointestinal transit in the rat 814
T. Asai, W. W. Mapleson and I. Power

REVIEW ARTICLE

The anaesthetist's role in acute sickle cell crisis 820
V. Vijay, J. D. Cavenagh and P. Yate

SHORT COMMUNICATIONS

Changes in arterial–mixed venous oxygen content difference ($CaO_2-C\bar{v}O_2$) and the effect on shunt calculations in critically ill patients 829
M. Nirmalan, T. Willard, A. Khan and P. Nightingale

Myocardial ischaemia during tracheal extubation in patients after cardiac surgery: an observational study 832
N. J. Barham, O. W. Boomers, K. M. Sherry and T. J. Locke

Haemodynamic responses to extubation after cardiac surgery with and without continued sedation 834
J. Conti and D. Smith

Intra-articular injection of ketorolac in the rat knee joint: effect on articular cartilage and synovium 837
M. G. Irwin, K. M. C. Cheung, J. M. Nicholls and N. Thompson

Halothane increases the open probability of glycine-activated channel current in rat central neurones 840
M. Wakamori, Y. Ikemoto and M. Yamashita

CASE REPORTS

Ropivacaine-induced seizure after extradural anaesthesia . 843
E. I. Abouleish, M. Elias and C. Nelson

Co-incidental diagnosis of an extradural abscess while siting an extradural catheter for postoperative analgesia .. 845
M. Mercer and A. McIndoe

Postoperative treatment of myocardial ischaemia by thoracic extradural local anaesthetic 848
G. Boccara, C. Mann, D. Duchenne, Y. Pouzeratte and P.Colson

Cushing's disease treated by trans-sphenoidal selective adenomectomy in mid-pregnancy 850
A. Mellor, R. D. Harvey, L. H. Pobereskin and J. R. Sneyd

Death associated with disseminated intravascular coagulation after hip replacement 853
S. W. Logan

Holt–Oram syndrome 856
S. Shono, K. Higa, K. Kumano and K. Dan

CITATION CLASSIC

Commentary 858
G. B. Drummond

Factors influencing the arterial oxygen tension during anaesthesia with artificial ventilation. 860
J. F. Nunn, N. A. Bergman, A. J. Coleman

CORRESPONDENCE

Death in the dental chair-an avoidable catastrophe? 877

Optimum technique for delivery of extradural analgesia during labour 877

Inhalation anaesthetics and the Medtronic Maxima *Plus* membrane oxygenator 878

A leak of concern 878

BOOK REVIEWS

Management of the Elderly Surgical Patient. Problems in Anaesthesia 880

Principles and Practice of ICU Monitoring 880

Index to volume 80 881